

## **TIAMA**

*(SOCIETE ANONYME A CONSEIL DE SURVEILLANCE ET DIRECTOIRE)*

*(Public limited company with Supervisory Board and Board of Management)*

### **METHOD AND DEVICE FOR DETECTING SURFACE DEFECTS ON THE NECK RING OF A TRANSPARENT OR TRANSLUCENT CONTAINER OF REVOLUTION**

#### **ABSTRACT:**

The device for detecting surface defects (2) on the neck ring (3) of a container comprises:

- a light source (5) adapted to illuminate, by means of an incident light beam, a section of the surface of the neck ring of the container, along a determined incident direction ( $D_i$ ),
- at least one linear sensor (10) to measure light beams, arranged so as to receive the light beam reflected by the surface defect, the angle ( $\alpha$ ) between the incident ( $D_i$ ) and reflection ( $D_r$ ) directions lying between 15 and 45°, preferably in the order of 30°, one of the directions being parallel to the axis of revolution of the container,
- means (15) for ensuring the rotation of the container about the axis of revolution through at least one rotation,
- and a unit (16) for analysing and processing light beams received by the linear sensor, adapted to identify the presence of a surface defect.

(Figure to be published: **fig. 1**)